



Bob.Drake@erm.com
07/12/2007 07:10 AM

To Stephanie Carr/R1/USEPA/US@EPA
cc Kevin.King@erm.com
bcc
Subject Re: June 19 proposal



RDMS DocID 106157

Stephanie:

1. Check the July 3 (1st) submittal - a map showing all Waterloo locations was provided along with the scope of work. If it went missing, I'd be glad to e-mail another copy.
2. The wells were put in last week. Upon development, the lower wells went dry, the upper ones recharged. We don't have analytical data yet, but this is further evidence of the location of likely VOC transport in the weathered (rather than deep) bedrock.
3. Never did find MW-17. As of the latest sampling event (May 07), groundwater from ERM-11 (on the site, directly upgradient of MW-17) contained TCE slightly above the I/C VC (previous sampling events indicated TCE below the standard). Based on the results of the next round (due this month), we may recommend elimination of the future use of MW-17 in favor of ERM-11 (only) to demonstrate GW under control in the overburden.

Robert J. Drake, PE, Ph.D., LEP

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REF. NO. R-9
*106157

Carr.Stephanie@epamail.epa.gov

07/12/2007 06:37 AM

To Bob.Drake@erm.com
cc
Subject Re: June 19 proposal

Hi again,

I started to take a look at the information you sent, but there does not appear to be a figure

showing where each of these waterloo profile wells were installed. Do you have a figure you could send?

Your June 19, 2007 proposal stated: "Collectively, these data indicate that the VOC plume is migrating along the bedrock-overburden contact. Therefore, the installation of nested monitoring wells in the open-hole bedrock wells was not performed, as no data could be developed from these efforts." However, your proposal dated July 26, 2006 stated that even if no transmissive fractures are identified within competent bedrock, then one well screen will be set at the bottom of the borehole and one within the upper weathered bedrock zone to evaluate the effect of the weathered rock zone on contaminant migration. A site-wide elevation gauging event will then be performed including these wells and groundwater samples will be collected and analyzed for CVOCs. Has this work been completed? It would seem that the results of this work would provide important info on the units in which CVOCs are actually travelling.

Also, what happened with MW-17? I'm assuming that ERM was not able to locate this well.

In addition, EPA had requested, in it's July 27, 2006 letter to you, that at least one groundwater profiling location be selected in the southeast area of the site, east of MW-2, to characterize this area in order to confirm that the plume is not migrating toward the residence across the street. Was this work performed?

Thanks Bob. I'll be in the office on Tuesday and Wednesday next week if you'd like to discuss this. I have several tasks on another project that I need to complete, but I don't believe I have any meetings scheduled, so I could squeeze in a conversation on this any time between 7 am - 2 pm on either day. Thanks again, Steph

-----Bob.Drake@erm.com wrote: -----

To: Stephanie Carr/R1/USEPA/US@EPA

From: Bob.Drake@erm.com

Date: 07/11/2007 08:38AM

Subject: Re:

OK, one more try. Here's a pdf of:

- Graphical version of the VOC data
- Actual VOC data summary
- Graphical version of the p-chem data

If THIS doesn't work, I'll try to fax you this package (might be hard to read)

Robert J. Drake, PE, Ph.D., LEP

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Please visit ERM's web site: <http://www.erm.com>

[attachment "Waterloo info.pdf" removed by Stephanie Carr/R1/USEPA/US]

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